

**SIENA Event Service:** SIENA is an information dispatcher that extends the "Publish/Subscribe" protocol. SIENA provides content-based information routing.

**Focus:** *scalability* and *expressiveness*.

**Potential applications:** software administration, network management, software/business process, security monitors, stock market analysis, distributed middleware technology, etc.

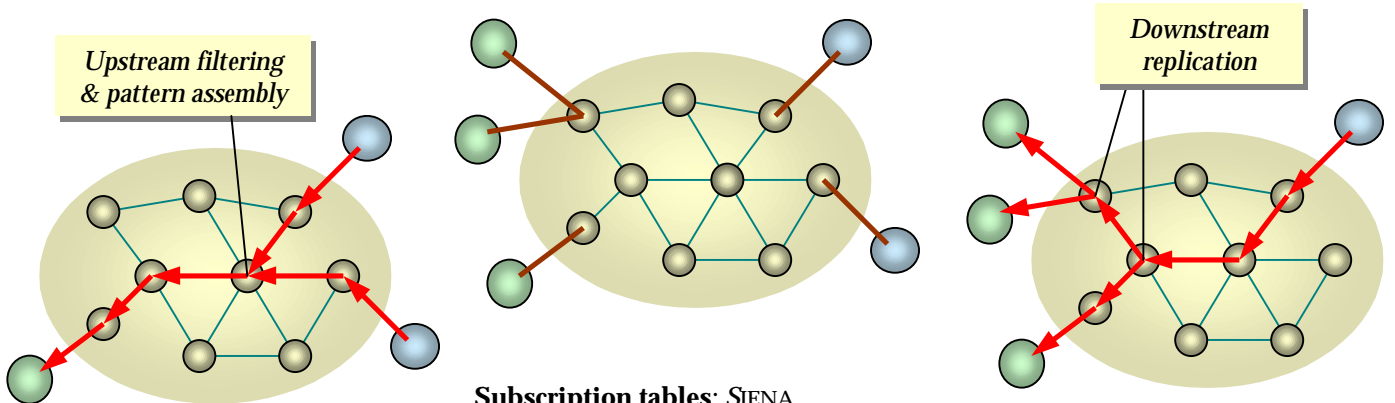
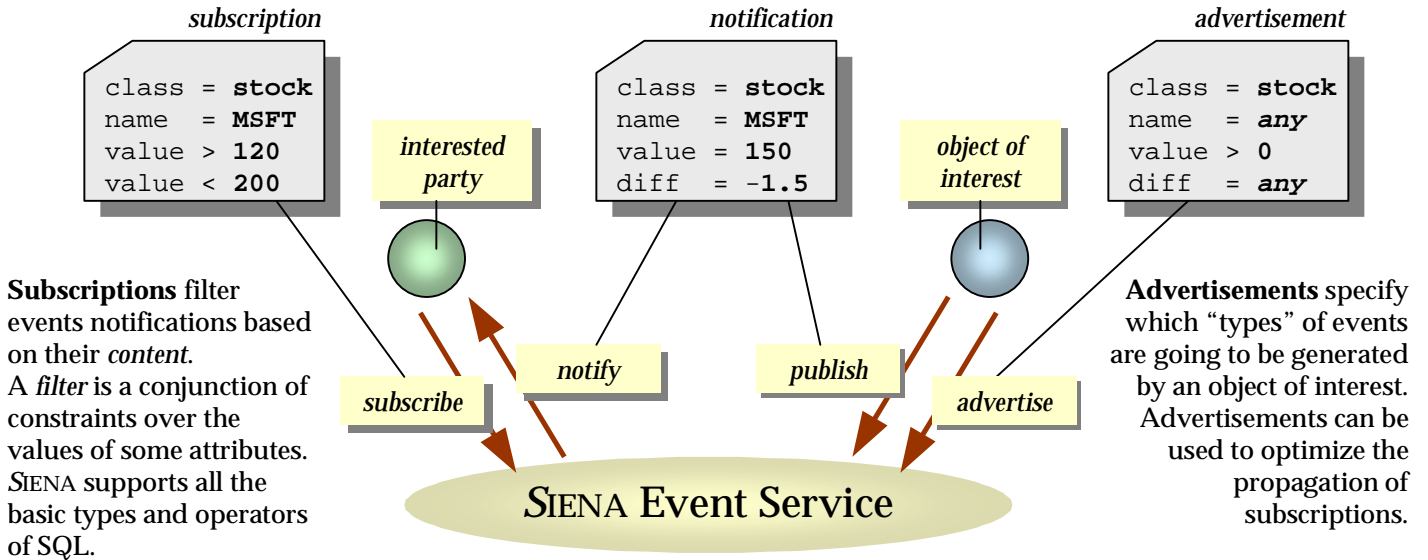
Scalability

architecture

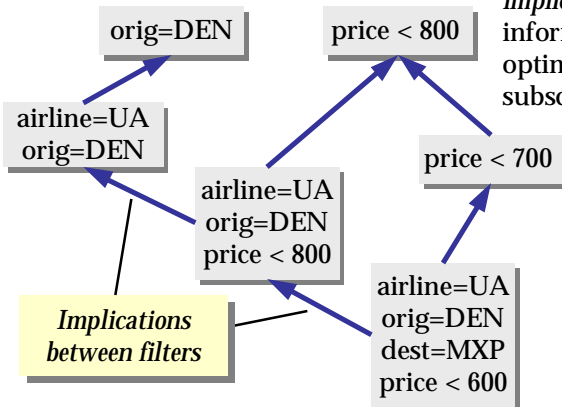
	centralized	hierarchical	peer-to-peer
channel	Field, CORBA, Java	CORBA, Java	IP multicast, iBus
subject	ToolTalk	NNTP, TIBCO, JEDI	
content	Elvin	Keryx	Gryphon
content + patterns	Yeast, GEM, active dbases		SIENA

Expressiveness

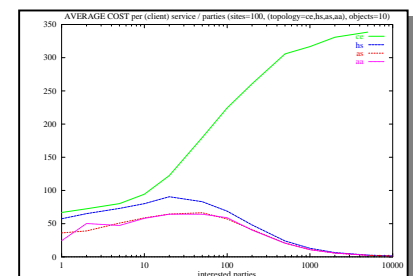
Subscription language



**Subscription tables:** SIENA understands and records the *implications* among filters. This information is used to direct and optimize the propagation of subscriptions and advertisements.



**Validation:** the architectures of SIENA have been evaluated by means of systematic simulations of network scenarios. The initial results show that our approach goes in the right direction.



**Prototype:** there are two prototype implementations of SIENA: one (written in Java) realizes a hierarchical server, while the other (written in C++) has a peer-to-peer architecture. The client interface is available for Java and C++.